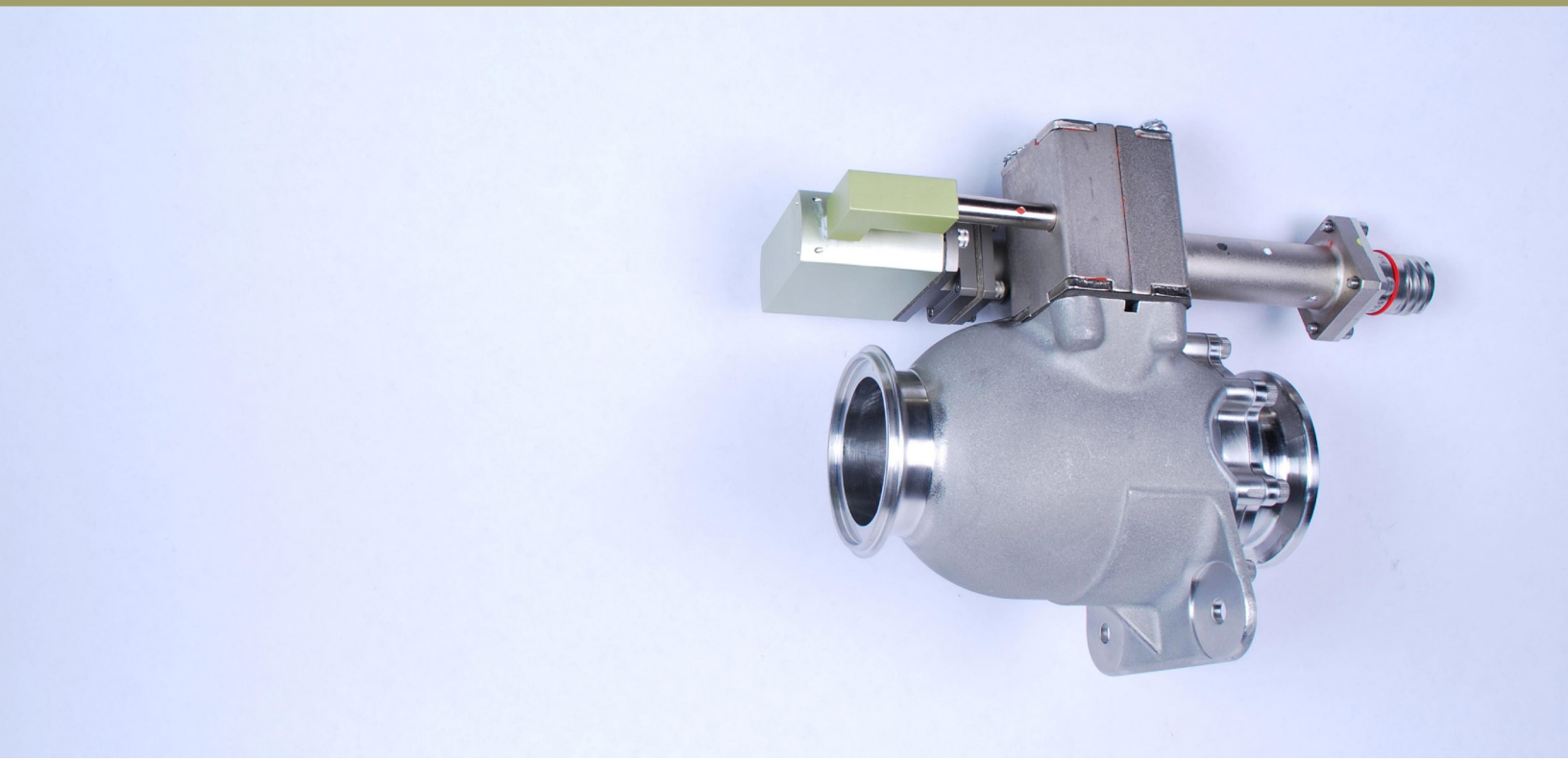
V44700 - Engine Bleed Air Valve

2-Way Normally Open or Normally Closed
Shut-Off Solenoid Valve



DESCRIPTION

Valcor offers a subset of their V44700 Series for aircraft engine bleed air (hot gas) applications. These valves are pilot operated, solenoid shut-off valves. They come in normally open or normally closed configurations. The valve body is designed for high flow with low pressure drop. Position indication options are available.

APPLICATION

This subset of the V44700 valves are ideal for engine bleed air, nitrogen generating systems, OBIGGS pressure regulation, and pressure regulating shut-off valve applications. They can handle fluid temperatures up to 900°F.

They have been and are currently successfully used in the following:

- Large Commercial
- Passenger Aircraft
- Small Commercial Aircraft
- Military Cargo Aircraft
- Military Helicopters

FEATURES

- 2-Way Normally Closed or Normally Open
- Custom porting available up to 2” lines
- Ambient Temperature Range: -65°F to +165°F
- Fluid Temperature Range: -65°F to +900°F
- Pressure range: 0-300 PSIG
- Weight ranges from 3 lbm to 5 lbm, depending on pressure and flow rate
- Position Indication Options Available

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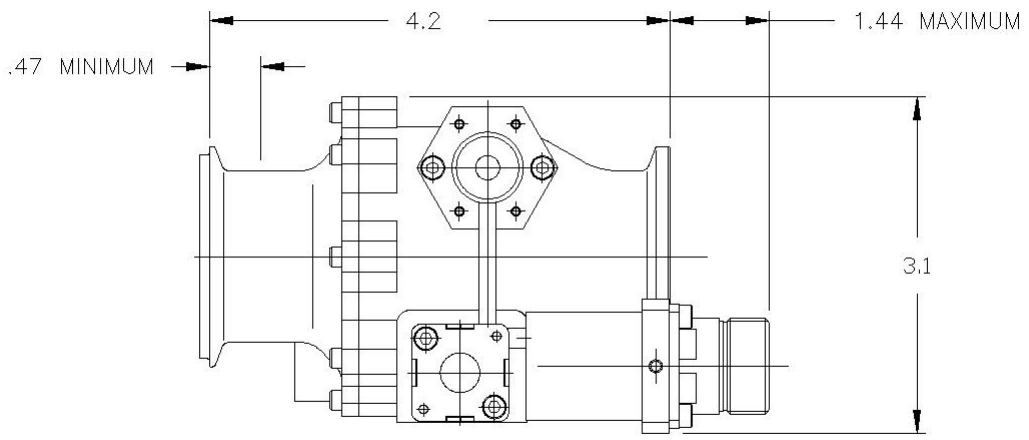
SOLENOID VALVE SERIES 44700 ENGINE BLEED AIR VALVE

Envelope Estimates



Electrical Data

Voltage	18 to 30 VDC
Duty	Continuous
Current	1.5 amps at 28 VDC and at 70°F, depending on design
Electrical Connector	To suit customer requirements

Part Numbers

Valcor Part No.	Operating Fluid	Temperature	Operating Pressure	Flow Rate	Weight
V44700-324-1-W	Air	-49°F to 231°F	7 to 40 PSIG	ESEO = .85	1.4 LBS
V44700-324-2-W	Air	+49°F to 231°F	7 to 40 PSIG	ESEO - .85	1.4 LBS
V44700-210-6-W	Engine Bleed Air	-65°F to 265°F	10 to 300 PSIG	ESEO = .616	2.5 LBS
V44700-300-W	Engine Bleed Air	-65°F to 890°F	15 to 275 PSIG	10 LBS/min	5.5 LBS
V44700-252-W	Engine Bleed Air	-65°F to 250°F	18 to 65 PSIG	85 LBS/min	4 LBS
V14100-386-W	Engine Bleed Air	-65°F to 1000°F	12.8 to 365 PSIA	.3 LBS/min	5.2 LBS
V100000-235-W	Engine Bleed Air	-65°F to 546°F	0 to 40 PSIG	.51 kg/sec	4.2 LBS
V44700-141-W	Bleed Air	-65°F to 735°F	20 to 50 PSIG	1.5 LBS/min	1.1 LBS
V44700-329-W	Air	-65°F to 886°F	20 to 108.2 PSIG	1.4 LBS/sec	3.2 LBS
V44700-136-W	Bleed Air	-65°F to 550°F	20 to 90 PSIG	57 SCFM	1.1 LBS
V44700-142-W	Engine Bleed Air	-65°F to 680°F	0 to 150 PSIG	ESEO = .225	1.5 LBS
V44700-14201-W	Engine Bleed Air	-65°F to 680°F	0 to 80 PSIG	ESEO = .235	1.2 LBS
V44700-222-W	Bleed Air	-65°F to 735°F	20 to 50 PSIG	1.5 LBS/min	1.0 LB
V44700-2632-W	Air	-65°F to 750°F	0 to 200 PSIG	ESEO = .18	1.0 LB
V44700-205-W	Bleed Air	-65°F to 735°F	20 to 80 PSIG	1.5 LBS/min	1.1 LBS
V44700-237-W	Engine Bleed Air	-65°F to 640°F	20 to 100 PSIG	12 LBS/min	1.4 LBS
V45000-70-W	Engine Bleed Air	-41°F to 572°F	28 to 88.2 PSIG	ESEO = .600	1.8 LBS
V45000-110-W	Air	-22°F to 755°F	20 to 234 PSIG	ESEO = .600	1.8 LBS